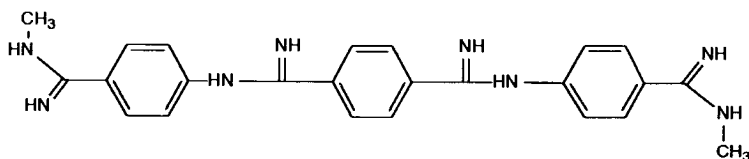


TEREPHTHALAMIDINE

NSC - 57155



* 4HCl

Chemical Name:

N,N''-Bis[4-imino-(methylamino)methyl]phenyl]-1,4-benzenedicarboximidamide, tetrahydrochloride

CAS Registry Number: 2053-23-8

Other Names: Symetamine

Molecular Formula: C₂₄H₂₆N₈·4HCl

M.W.: 572.4

Approximate Solubility:

(mg/mL)

Water	> 10.9
Buffer, pH 4	> 10.5
Buffer, pH 9	2.1 - 2.7
Dimethylacetamide	< 0.8
Ethanol	< 0.7

DMSO	> 11.1
Chloroform	< 0.7
Ethyl acetate	< 0.7
t-BuOH	< 0.7

Stability:

Bulk:

Test samples stored for 3 months at 25 °C under light and dark conditions and at 50 °C under dark conditions showed no degradation (HPLC).

Solution:

A test sample (20 mg/mL water) exhibited no significant degradation after 48 hr at 25 °C under light (HPLC).

Ultraviolet Absorption:

(water)

λ_{\max}	ϵ
244 \pm 2 nm	27,500 - 35,900
254 \pm 2 nm	26,700 - 33,750

High Performance Liquid Chromatography:

Column: Zorbax RX (C₈), 250 x 4.6 mm i.d.

Mobile Phase: 1% methanol in water containing 0.05M KH₂PO₄, pH adjusted to 3.75 with phosphoric acid.

Flow Rate: 1.5 mL/min

Detection: UV at 254 nm

Sample Preparation: Sample is dissolved in reagent grade water to give a concentration of ≈ 0.8 mg/mL and 0.6 mg/mL Internal Standard.

Internal Standard: Thymine

Retention Volume: 8.0 mL (NSC 57155)
14.4 mL (I.S.)